

Wagner, Heindel, and Noyes, Inc.

· Consulting Hydrogeologists

Engineers

Environmental Scientists

P.O. Box 1629 Burlington, Vermont 05402-1629

802-658-0820 AX: 802-860-1014

May 31, 1994

Mr. Chuck Schwer
Supervisor
Sites Management Section
Hazardous Materials Management Division
Vermont Department of Environmental Conservation
103 South Main Street/West Office Building
Waterbury, VT 05671-0404

Re: OMYA/Pluess-Staufer, New Haven Jct. (Site #93-1537) Sampling and Sensitive Receptor Survey Report



We have completed the ground water sampling and sensitive receptor survey activities outlined our January 18, 1994 Work Plan and Cost Estimate for Additional Site Characterization of the OMYA/Pluess-Staufer Industries New Haven Jct. leaky underground heating oil tank sites.

Laboratory assays of groundwater sampled from both former leaky underground no.2 fuel oil storage tank site found no detectable concentrations of purgeable aromatic contaminants at either location. These results indicate that the free product recovery and soil removal activities coincidental with the tank removals effectively remediated both tank sites. Potential sensitive receptors at the site include a nearby company-owned water supply well, a wetland, and structures with basements. Visual inspection and PID vapor screening of nearby buildings and along the wetland boundary uncovered no evidence of contamination. Additionally, sampling of the down-gradient water supply well yielded no detectable concentrations of purgeable aromatic contaminants. Based on the absence of identifiable impact to potential receptors, and absence of detectable contamination at either tank site, we recommend site closure. Site maps, copies of laboratory reports on water quality analyses and water supply well records in support of these findings are presented as attachments.

<u>Background</u>

On December 2 and 3, 1993, two underground no.2 heating oil storage tanks were removed from the ground at OMYA/Pluess-Staufer's New Haven Jct. calcium carbonate mill located at the junction of routes 7 and 17 in the town of New Haven (see Site Location Map and U.S.G.S. Topographic Map Section, Appendix 1, pages 1 and 2). A 3,450 gallon tank was removed from the west side of the former H.P. Hood milk receiving station building and a 2,000 gallon tank was removed from the south end of the warehouse/bagging plant building (see Tank Pull Form maps, Appendix 1, page 3 and

Mr. Chuck Schwer May 31, 1994 Page 2

4). Free product was observed at both tank locations (from a suspected line leak at the milk station site and from tank perforations at the warehouse site).

As test pit excavations at both sites indicated that the bulk of the contamination was confined to the immediate vicinity of the tanks, soil excavation was undertaken to remove the free product and impacted soils. Photoionization detector (or PID; H-nu model Pl-101 with a 10.2 eV lamp) screening results indicated that the remaining soils had less fuel vapor concentrations less than 5 ppm. A 12" diameter SDR-35 plastic monitoring wells was installed at each tank site within the confines of the former tank excavation.

Groundwater Quality Sampling

The two tank site monitoring wells were sampled on March 18, 1994. The wells were developed prior to sampling using a centrifugal pump. The record samples were preserved with NaN₃ (a biocide) and delivered to the laboratory for analysis via EPA Method 602. No petroleum odors, sheens, or product were detected during the well development and sampling.

The results of the groundwater quality testing are presented in the attached laboratory reports (see Appendix 2, pages 2 and 3). The groundwater sample collected from the monitoring well at the former Hood's milk receiving station tank site is designated Recovery Well North. The groundwater sample from the warehouse tank site is labeled Recovery Well South. The EPA Method 602 assays found both groundwater samples free of detectable BTEX and MTBE contamination. Additionally, no unidentified peaks (non-target compounds) were detected in either assay.

The absence of detectable soil vapors and dissolved-phase contamination in groundwater at both sample locations indicates that the free product recovery and soil removal conducted during the tank removal was successful in remediating the leaky tank sites.

Sensitive Receptor Survey

Per your letter of January 10, 1994, an assessment was made to determine if there were any water supply wells in the vicinity of the site that may be at risk from the contaminant releases. Attached in Appendix 1 (page 5) is a While Pigment Corp. plan view of the site showing the location of all drilled well sites on the premises. From the topography and surface water drainage patterns at the site, the inferred direction of groundwater flow across the two leaky tank sites is to the east. Therefore, the well sites most likely to be at risk are the Chapman well, Well #18 and Well #19.

According to well record forms obtained from OMYA/Pluess-Staufer, Well #18 and Well #19 were completed in late 1971 and abandoned (pipe pulled) shortly thereafter (see Appendix 1, pages 6-9). The Chapman well is the only operating well down-gradient of the tank sites, and therefore is the only water supply in the vicinity likely to be at any risk.

Mr. Chuck Schwer May 31, 1994 Page 3

A water sample was collected from the Chapman well (an overflowing well) on March 18, 1994. The sample was also tested in the laboratory via EPA Method 602.

The laboratory assay of the Chapman well water sample (designated Spring station) found no BTEX or MTBE in detectable concentrations nor were any unidentified peaks reported. The laboratory report is provided in Appendix 2 (page 4). These results indicate that the Chapman well has not been impacted by the fuel releases at the warehouse and milk station tank sites. Furthermore, the potential for impact to either the bedrock or gravel aquifers is low given that both aquifers are separated from the surface environment by a thick sequence of lake clays (see Well Completion Reports, Appendix 1, pages 6-9).

In addition to the water supply well sampling, a thorough reconnaissance and PID vapor screening of the site was completed on April 28, 1994 (after the spring thaw). Investigation along the boundary of the nearby (and down-gradient) wetland uncovered no visible evidence of petroleum contamination (no sheens, discoloration or stressed vegetation). Vapor screening of shallow soils along the wetland boundary also found no evidence of contamination.

A PID vapor survey of all the nearby buildings on the site found no detectable levels of contamination. The former plant office building (a two story wood-frame structure located approximately 75 feet up-gradient from the warehouse tank site) is the only structure on the premises with a full basement. The office building's foundation is laid block; a free-standing 275 gallon no.2 heating oil tank is located in the basement. An absence of detectable PID vapors indicates that the structure is not impacted from either the interior fuel tank or vapor migration from the leaky warehouse tank site.

Conclusions

Given the absence of detectable BTEX and MTBE at both former leaky tank sites, and testing results which indicate that no sensitive receptors have been impacted by the fuel releases, we submit that no further action is necessary at either tank site. Monitoring of contaminant levels in the soil stockpile/surface treatment area (including periodic PID vapor screening and laboratory assays) shall continue through the summer months. We expect that the soil treatment will be complete by summer's end at which time we shall petition the Sites Management Section for full site closure.

Mr. Chuck Schwer May 31, 1994 Page 4

If you have any questions or comments regarding this report, please feel free to contact me or Jeff Noyes. Thank you for your consideration.

Sincerely,

Michael K. Sparks

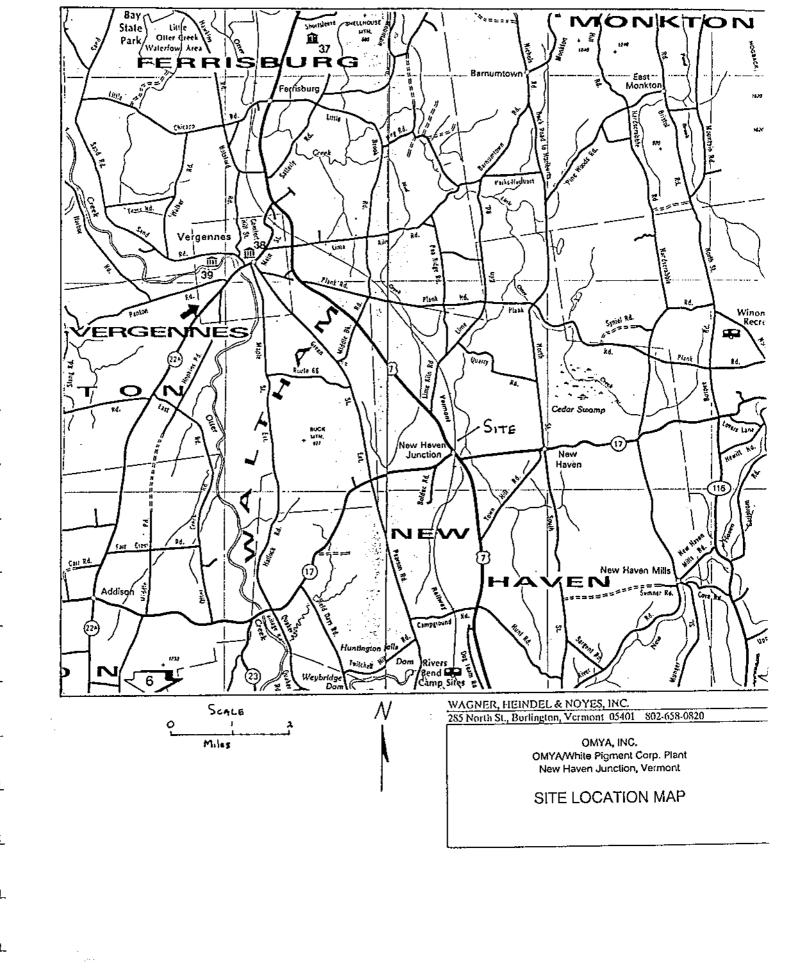
Hydrogeologist/REM #5770

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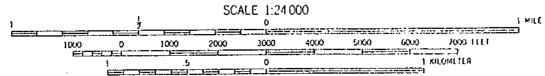
Attachments

cc: Dale Harris, OMYA/Pluess-Staufer Industries

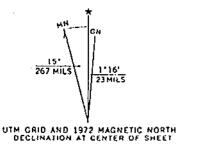
[L-SCHWER/MKS 5-17-94]







CONTOUR INTERVAL 10 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929



WAGNER, HEINDEL, & NOYES, INC. 285 North St., Burlington, Vermont 05401 802-658-0820

U.S.G.S. TOPOGRAPHIC MAP SECTION

OMYAWhite Pigment Corp. Plant NEW HAVEN JCT., VERMONT

2

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDERGROUND STORAGE TANK PROGRAM TANK PULL FORM

TODAY'S DATE: 12-3-93

INSPECTOR: Mike Sportes, Wagner. Heintel & Mayes, Inc.

DATE OF REMOVAL: |2-2-93

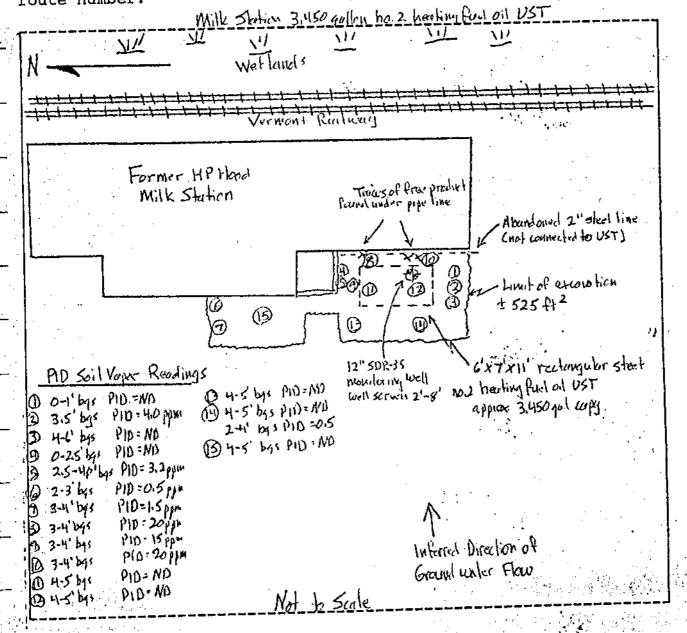
BUSINESS NAME: OMYN I Pluess - Struter Industries

New Haven Jat. Plant

Forwardy White Pigment Corp.

SITE DIAGRAM

Show location of all tanks and distance to permanent structures, sample points, areas of contamination and any pertinent site Indicate North arrow and major street names or information. route number.



VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDERGROUND STORAGE TANK PROGRAM TANK PULL FORM

TODAY'S DATE: 12-4-93

INSPECTOR: Wike Sparks, Wagner, Heindel & Neyes, live

DATE OF REMOVAL: 12-2-93

BUSINESS NAME: ONNA / Pluess-Stanfor Inhibitions

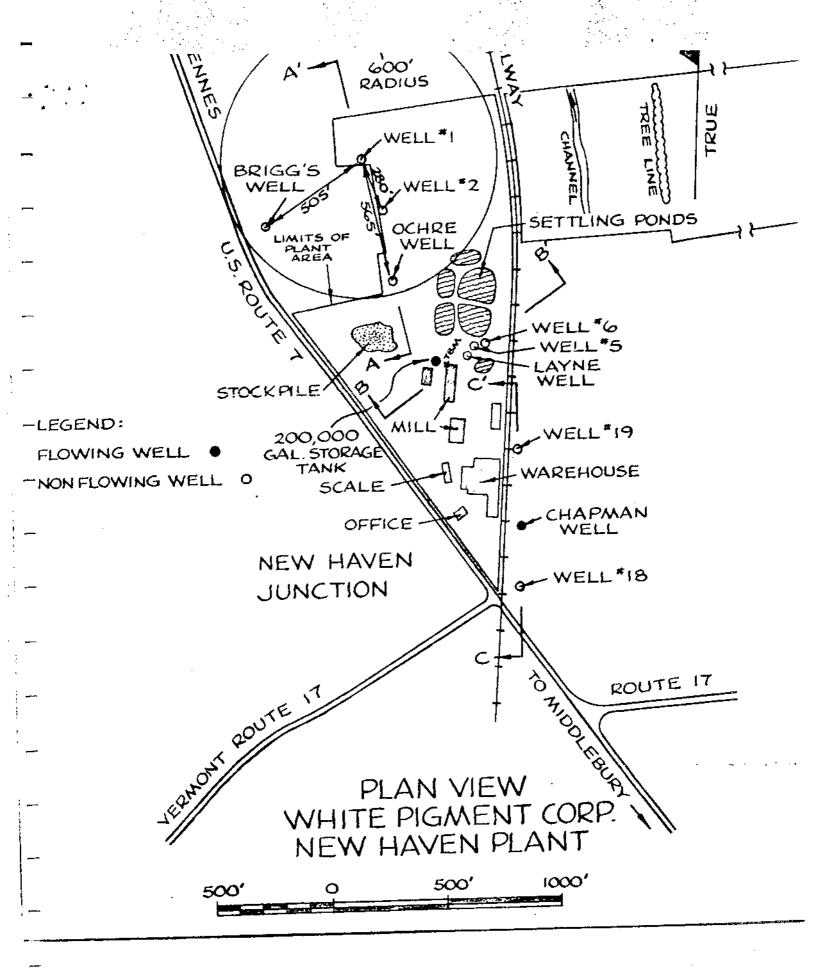
New Haven Jet Plant

Formerly White Priment Corp.

SITE DIAGRAM

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State of Vermont DEPARTMENT OF WATER RESOURCES

Form WR-5s

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State of Verment DEPARTMENT OF WATER RESOURCES

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WELL COMPLETION REPORT

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NEW YORK CO., INC.

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Mark Poland.
FOR LAYNE - NEW YORK CO., INC.



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT CODE: HNNH1067

PROJECT NAME: OMYA - New Haven Tank

REF.#: 57,402 - 57,405

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated preservation with NaN₃.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D. Laboratory Director

enclosures



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: OMYA - New Haven Tank

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994 DATE RECEIVED: March 18, 1994 ANALYSIS DATE: March 30, 1994 PROJECT CODE: HNNH1067

REF.#: 57,405

STATION: Recovery Well North

TIME SAMPLED: 11:30 SAMPLER: Chris Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Benzene	1	ND^1
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 97%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: OMYA - New Haven Tank

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994 DATE RECEIVED: March 18, 1994 ANALYSIS DATE: March 29, 1994 PROJECT CODE: HNNH1067

REF.#: 57,404

STATION: Recovery Well South

TIME SAMPLED: 11:10 SAMPLER: Chris Aldrich

Detection Limit (ug/L)	Concentration (ug/L)
1	ND^1
1	
1	ND
. 1	ND
1	ND
10	ND
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Bromobenzene Surrogate Recovery: 107%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: OMYA - New Haven Tank

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994 DATE RECEIVED: March 18, 1994 ANALYSIS DATE: March 30, 1994 PROJECT CODE: HNNH1067

REF.#: 57,403 STATION: Spring

TIME SAMPLED: 10:30 SAMPLER: Chris Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Th.	1	ND^1
Benzene	1	MD
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 99%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: OMYA - New Haven Tank

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994 DATE RECEIVED: March 18, 1994 ANALYSIS DATE: March 29, 1994

PROJECT CODE: HNNH1067

REF.#: 57,402

STATION: Trip Blank TIME SAMPLED: 10:00 SAMPLER: Chris Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Benzene	1	ND^1
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 96%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

EPA METHOD 602 LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: OMYA - New Haven Tank

REPORT DATE: March 30, 1994 DATE SAMPLED: March 18, 1994 DATE RECEIVED: March 18, 1994 ANALYSIS DATE: March 29, 1994 PROJECT CODE: HNNH1067

REF.#: 57,404

STATION: Recovery Well South

TIME SAMPLED: 11:10 SAMPLER: Chris Aldrich

<u>Parameter</u>	Sample(ug/L)	Spike(ug/L)	Dup1(ug/L)	Dup2(ug/L)	Avg % Rec
Benzene	ND^1	10	9.6	9.6	96%
Toluene	ND	10	9.4	9.4	94%
Ethylbenzene	ND	10	9.3	9.4	94%
Xylenes	ND	30	27.3	27.4	91%

NOTES:

32 James Brown Drive Williston, Vermont 05495 (802) 879-4333

CHAIN-OF-CUSTODY RECORD

10364

Project Site L	Project Name: OMYA - New HAVEN Kny Site Location: New Haven VT 93890				Reporting Address:						Billing Address:						
Endyi	Endyne Project Number: +WNH 1067				Company: WHW Contact Name/Phone #: M. SPAL4S 6580820						Sampler Name: Chris Aldrich Phone #: 6580820						
Lab# Sample Location Mate				Matrix	trix R O Date/lime Sample Containers Fie			Teld Re	sult:/Remarks	Analys Requir	1	Sample escrivation	Rush				
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